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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/812,091	03/30/2004	Teruo Okada	040160	3095	
23850	7590 11/29/2005		EXAMINER		
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			BERHANE, ADOLF D		
1725 K STRI SUITE 1000	•		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20006			2838		
			DATE MAILED: 11/29/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 37 CFR 1.13(a), in no event, however, may a reply be timely filed should be a start of the communication of 37 CFR 1.13(a), in no event, however, may a reply be timely filed should be a start of the communication of 37 CFR 1.13(a), in no event, however, may a reply be timely filed on the communication of the communicat		Application No.	Applicant(s)				
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The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of the may be available under the provisions of 37 CFR 1:30(a). In or event, however, may analybe temby fixed it into second for retary is second above, the maximum statutory parted will apply and will logins SIX (50 MONTHS from the matring date of this communication. Failute for pay which the site of central depends for provided by the office later than three months after the mailing date of this communication, even if timely filed, may reduce any second patient am applicant. Set 37 CFR 1:74(4). Status 1) Responsive to communication(s) filed on	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Exercisions of large many be available under the approxisions of 37 CFR 1-136(a). In or event, however, may a many be timally filled - Exercision of the reply septicible under the approxisions of 37 CFR 1-136(a). In or event, however, may a many be timally filled the second or reply and well expire (X) (MONTHS form the making date of this communication or plants to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S. C, § 135). - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S. C, § 135). - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S. C, § 135). - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S. C, § 135). - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S. C, § 135). - Failure to reply within the set or extended period for reply will, by statute, cause the application is non-final. - Shapitant to reply within the set or extended period for reply reply and will reply any any expenses. - Application of Claims - Application is accordance with the practice under Ex partle Quayle, 1935 C.D. 11, 453 O.G. 213. - Disposition of Claims - Application Failure period for reply developed for for requirement. - Application Papers - Claim(s) Sate and lowed. - Claim(s) Sate and Tiskare rejected. - Claim(s) Sate and Tiskare rejected. - Claim(s) Sate and Tiskare and Tiskare rejected. - Claim(s) Sate and Tiskare and Tiskare rejected. - Claim(s) Sate and Tiskare and Tiskare rejected to by the Examiner. - Applicant may not request that any objection to the drawing(s) be h		Adolf Berhane	2838				
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1) Responsive to communication(s) filed on	 WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any 						
2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 Claim(s) 1-8 and 8 is/are allowed. 6 Claim(s) 6 and 7 is/are rejected. 7 Claim(s) is/are objected to. 8 Claim(s) are subject to restriction and/or election requirement. Application Papers 9 The specification is objected to by the Examiner. 10 The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11 The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * ○ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper Notice of Praftsperson's Patent Drawing Review (PTO-948) 3) Notice of Informal Patent Application (PTO-152)	Status						
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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claim 6 and 7 are rejected under 35 U.S.C. 102(a) as being anticipated by Applicant's admitted prior art.

Applicant's admitted prior art discloses a switching power supply circuit in Fig. 9. a switching element (20) provided with a source terminal, a drain terminal and a gate terminal, a power supply source (10) connected to the source terminal, a load (50) connected to the drain terminal, a control circuit (100) connected to the gate terminal, an inductor disposed in a current path from the drain terminal to the load; a first current detection resistor (70, 80) disposed in a current path from the source terminal to the load; a first comparator (110) connected to the first current detection resistor, a second current detection resistor (point of contact that measures I – H) disposed in a current path from the drain terminal to the ground terminal; and a second comparator (120) connected to the second current detection resistor.

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Allowable Subject Matter

4. Claims 1-5 and 8 are allowed over the cited prior art.

5. The following is an examiner's statement of reasons for allowance: None of the cited prior art of record disclose or teach a switching power supply detecting with flywheel current detecting means that the flywheel current has reached a second reference value and turning on the switching element during the over current protection operation at a timing of the clock pulse after the flywheel current detected by the flywheel current detecting means has reached the second reference value.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Adolf Belfiane
Primary Examiner
Art Unit 2838

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